

Application No. 10/575,821
Amendment Dated November 11, 2010
Reply to Office Action of August 27, 2010

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Previously Presented) A method for displaying digital grey scale images at a desired tonal value on a display screen of a display device, the method comprising:

 pre-selecting based on an image visible on a display screen of a display device, a grey scale level of desire of an operator;

 storing values consistent with the grey scale level of desire in a memory associated with the display device to form an operator-specific target grey scale level;

 accessing the memory to retrieve therefrom information regarding the operator-specific target grey scale level when the operator picks up a new image for examination;

 automatically calculating an individual transformation function relevant to the new image based on the information; and

 automatically adjusting the new image to the operator-specific target grey scale level based on the individual transformation function.

Claim 2 (Currently Amended) A method as set forth in claim 1, wherein the individual transformation function is calculated by first selecting a desired initial function to be ~~parametered~~parameterized, the parameters of which are then optimized by an appropriate optimization algorithm for reaching the operator-specific target grey scale level.

Claim 3 (Previously Presented) A method as set forth in claim 2, wherein the transformation function comprises an exponential function.

Claim 4 (Previously Presented) A method as set forth in claim 2, wherein the transformation function produces an S-graph.

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Claim 5 (Previously Presented) A method as set forth in claim 2, wherein the transformation function produces a multi-segment graph.

Claim 6 (Previously Presented) A method for displaying digital grey scale images at a tonal value on a display screen of a display device, the method comprising:

retaining image brightness automatically by control of contrast, wherein each value of contrast control results in an automated selection of the brightness value wherein a minimum amount of the image area is visible in black or white while a maximum amount of the image area is visible in tones of grey.

Claim 7 (Previously Presented) A display device for displaying digital grey scale images at a desired tonal value on a display screen of a display device, comprising:

means for manually adjusting a grey scale level of an image to an operator-specific target grey scale level desired by an operator;

memory means for storing therein values relevant to the operator-specific target grey scale level; and

computing means for calculating an individual image-specific transformation function for each new image to be examined by the operator.